

FIG. 1

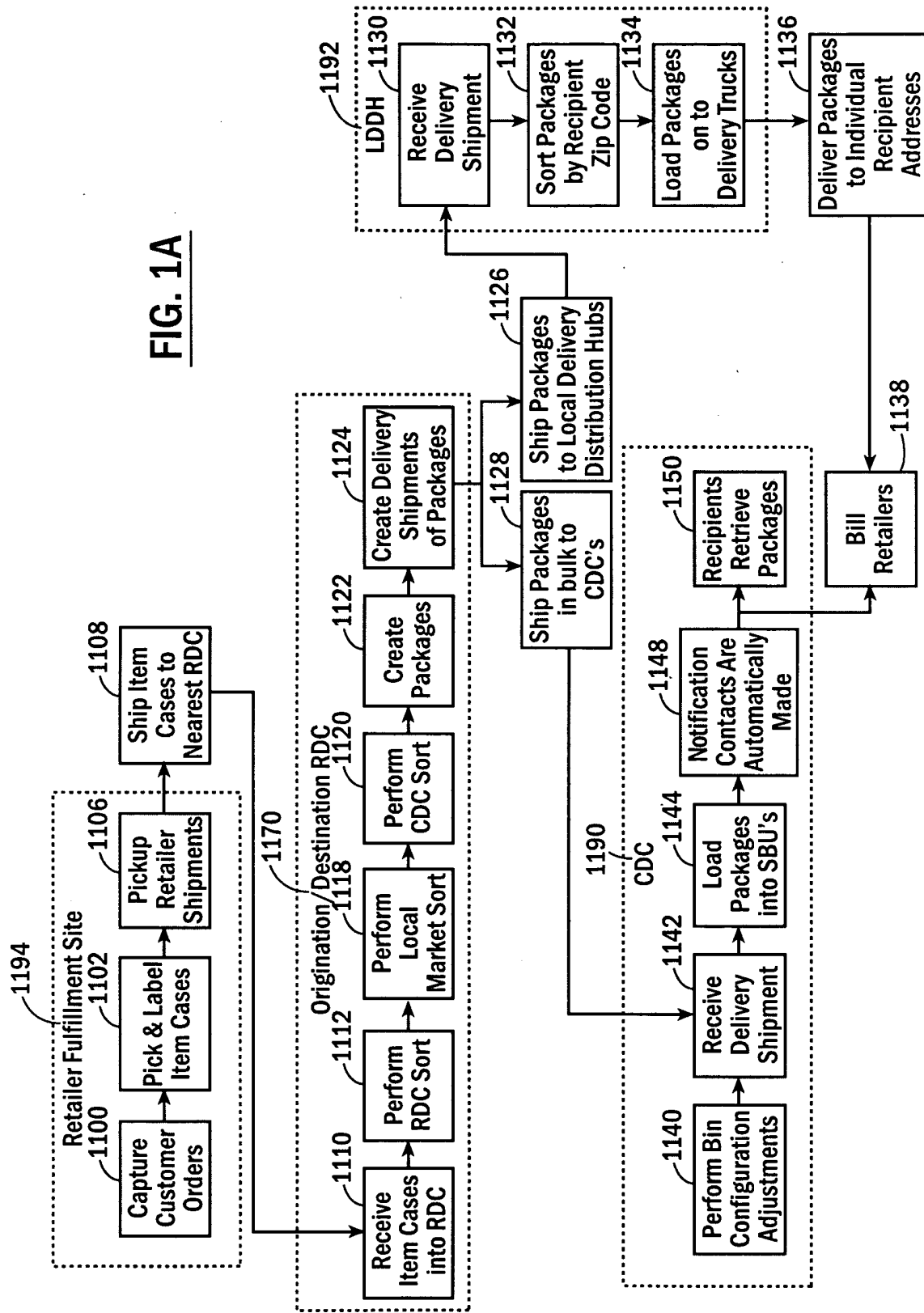


FIG. 1A

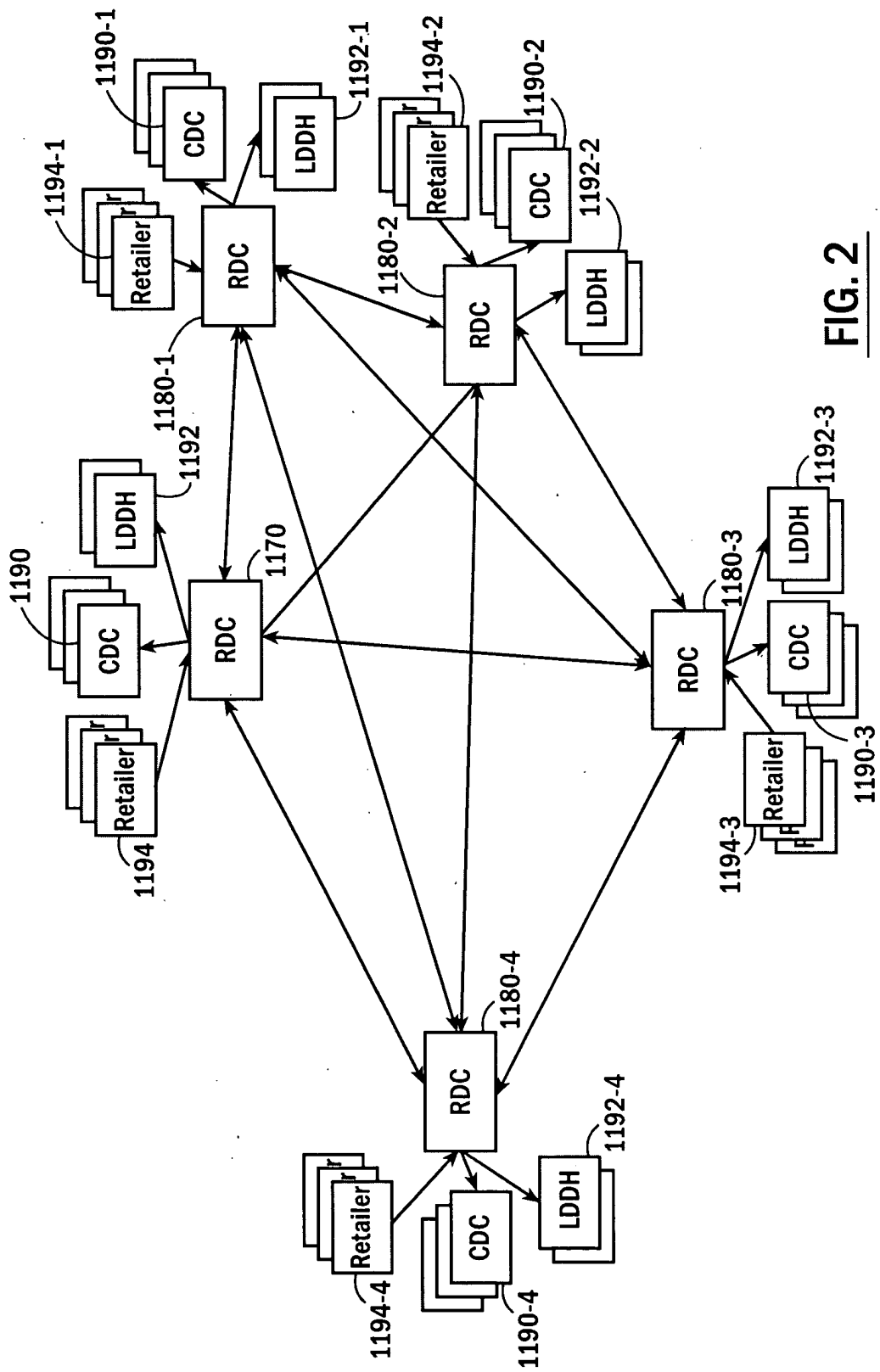
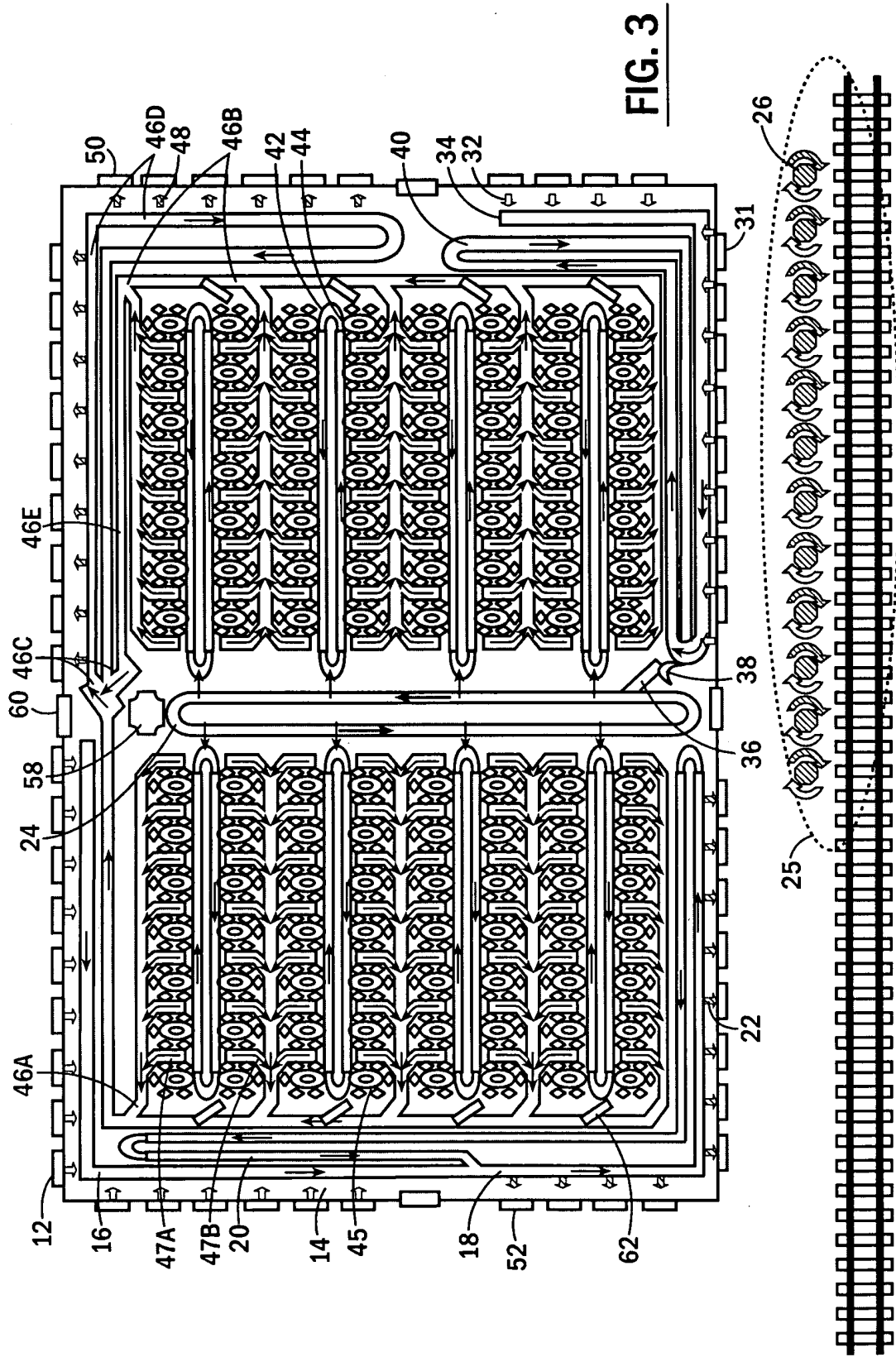


FIG. 2



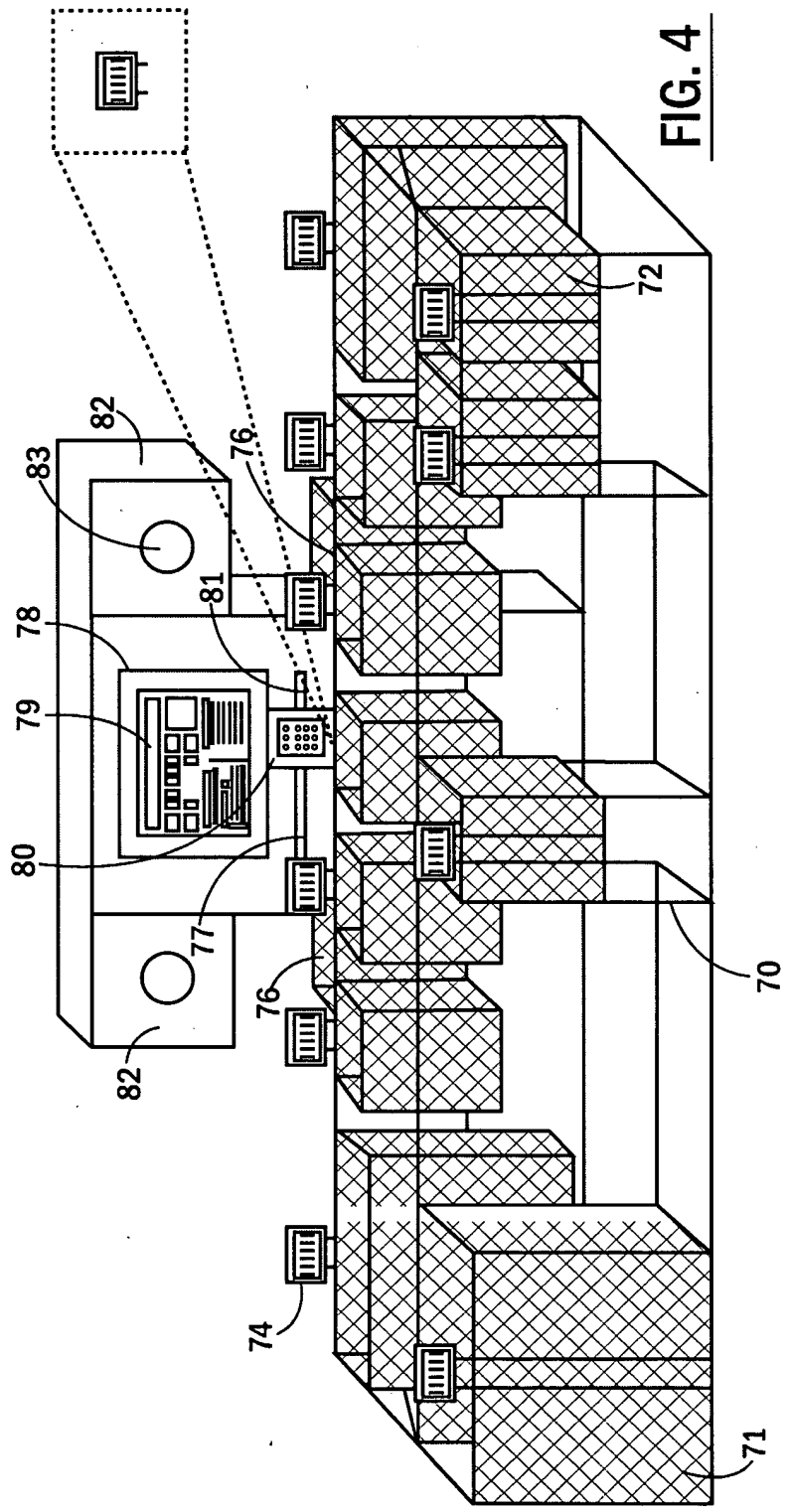


FIG. 4

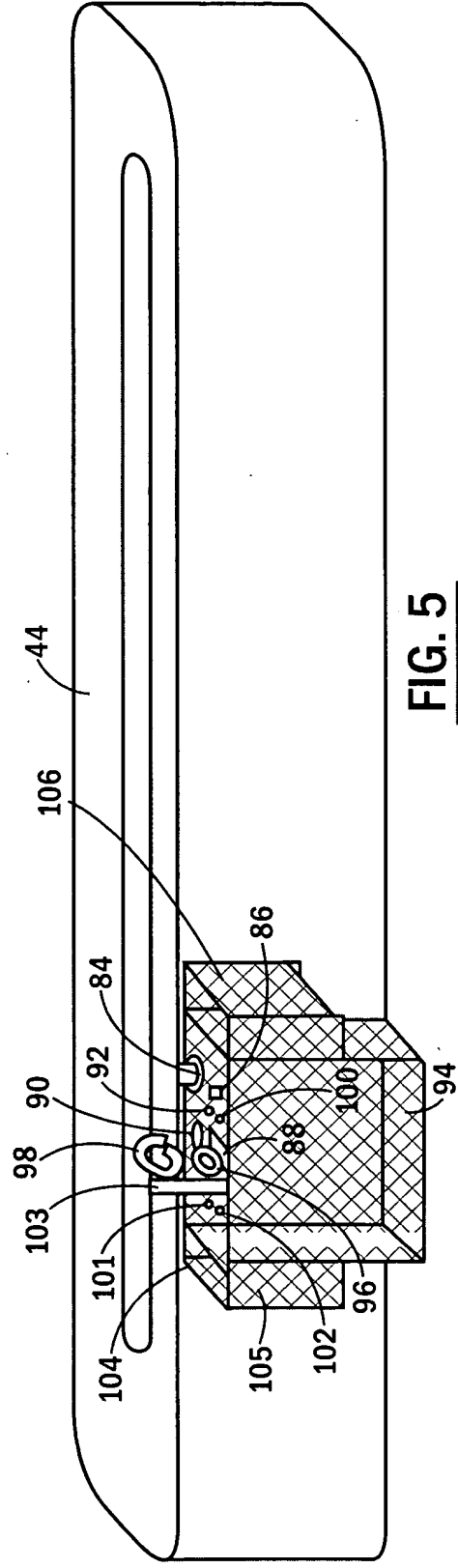


FIG. 5

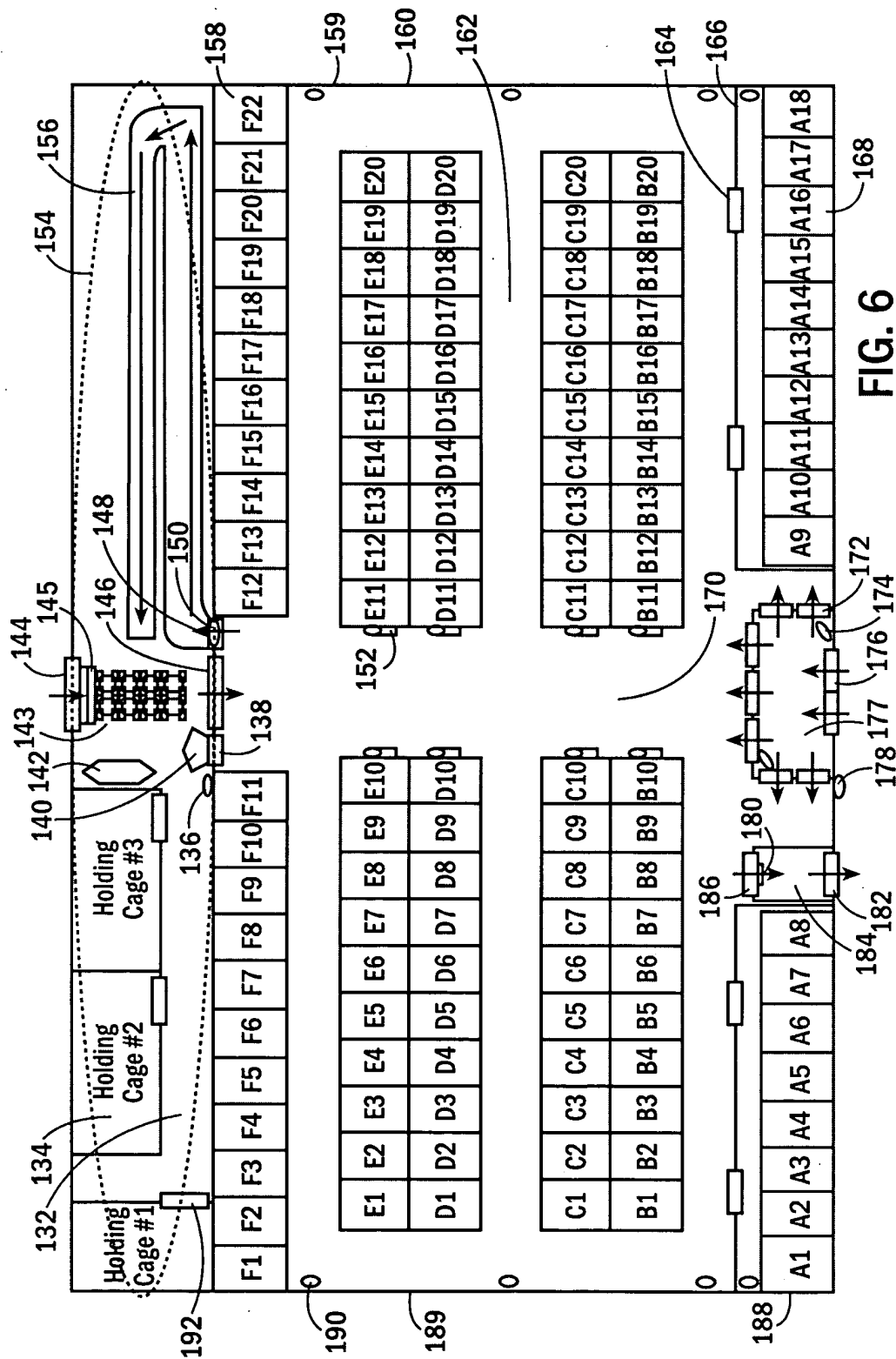


FIG. 6

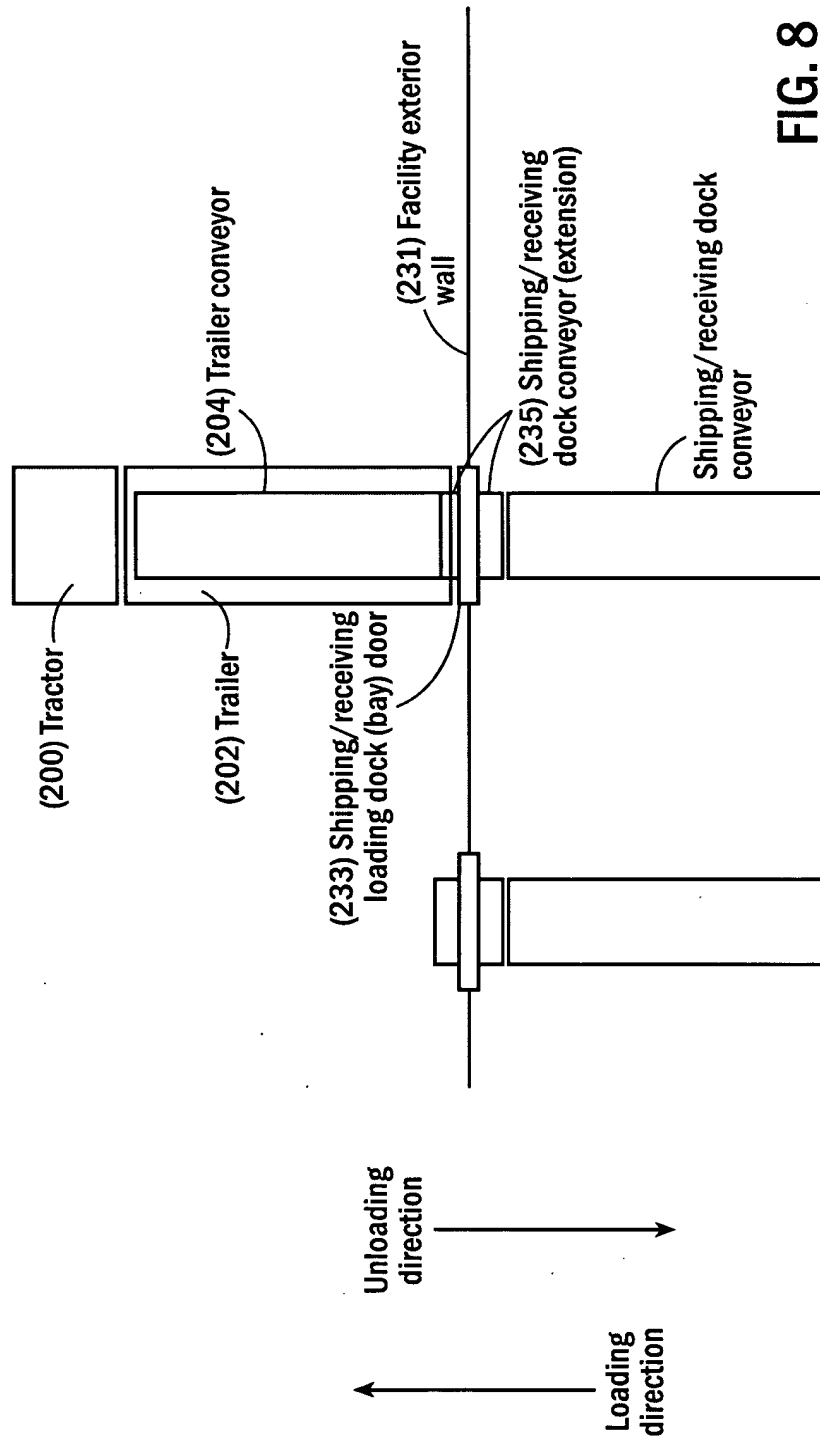


FIG. 8

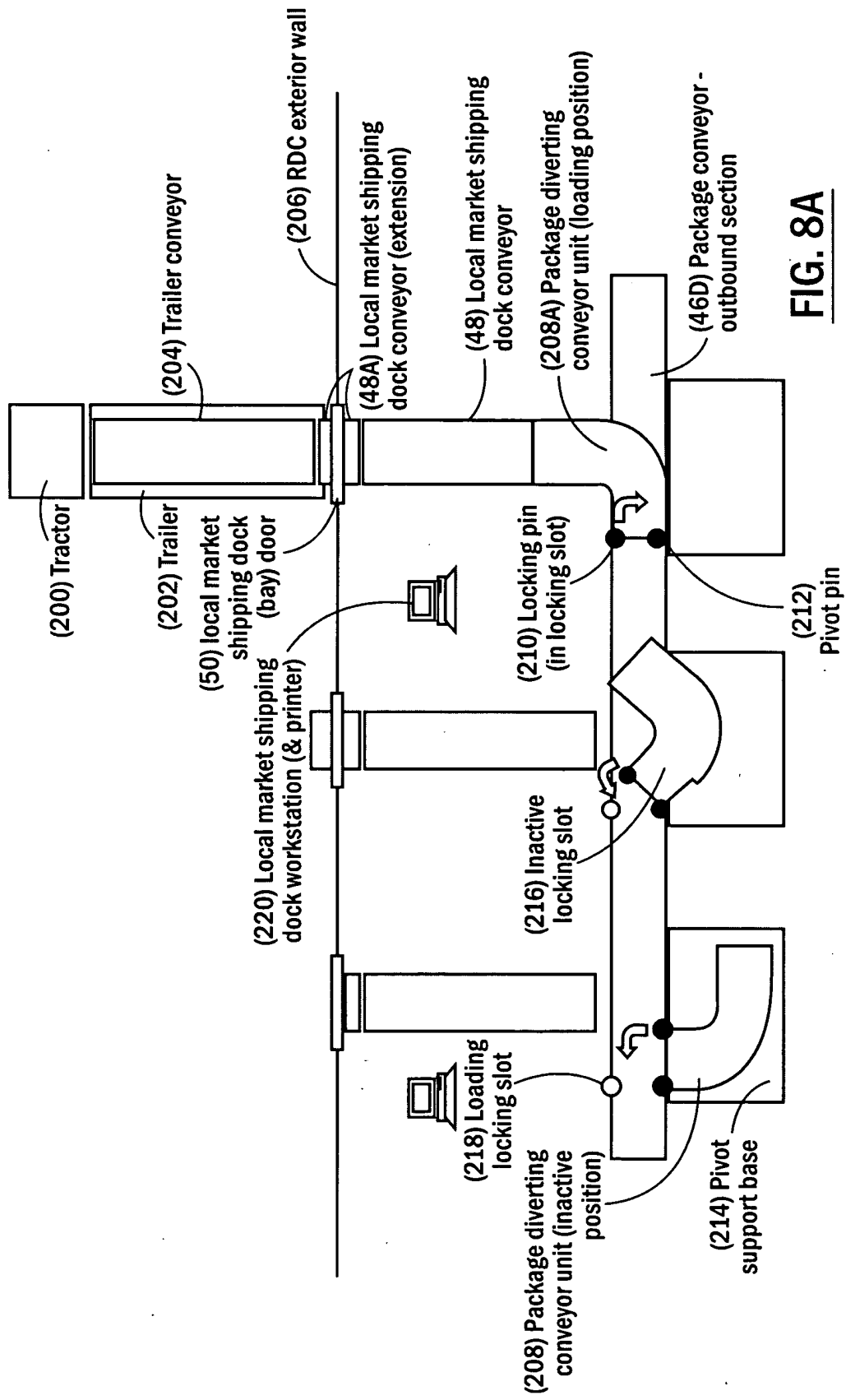


FIG. 8A

Order Header table															1200					
Order Id	Status	ePD Shipper Id	ePD Retailer Id	Retailer Order Number	Delivery Type	Customer Id	Ordering Customer Id	Order Date/Time	RDC Id	Local Market Id	CDC Id	Partial Ship	Retailer Message-Order Header	Retailer Message-Packing List	Delivery Name	Delivery Address 1	Delivery Address 2	Delivery City	Delivery State	Delivery Zip
amazon001-18362308-5-080300-001	open	epd	amazon001	987654321	ePD	183-62-3085	183-62-3085	08-03-00 14:23:02	AT001	sf0r	sf0r-019	No	custom message for order...	custom message for retailer...						

Order Detail table															1202					
Order Id	Status	SKU	SKU Size	Temperature e Code	Quantity	Retailer Shipment Id	RDC Shipment Id	Package Id	Case Id	Retailer Message-Order Detail	Notification Date/Time	Pickup Date/Time								
amazon001-18362308-5-080300-001	Retailer clock	0123456789 01234567	small	standard	1	amazon001-1080300-001	CH001-080300-080001	111221234-AT001-080400-001	amazon001-080300-123456	custom message for order (line item)...	7/12/2000 8:10:06 PM	7/13/2000 5:43:25 PM								

SKU data view					1204				
SKU	RDC Id	Quantity							
0123456789012345	AT001	214							

Case data view					1206				
SKU	RDC Id	Case Quantity	Item Quantity						
0123456789012345	AT001	3	11						

Case table															1208				
Case Id	Status	ePD Retailer Id	SKU	SKU Size	Temperature Code	Quantity	RDC Id	Partial/Mixed Flag	Pick Grouping Id	Retailer Shipment Id	RDC Shipment ID	Local Market Id	CDC Id						
amazon001-080300-123456	destination RDC	amazon001	012345678901234567	small	standard	16	SE001	No	amazon001-080300-PE001	amazon001-080300-001	CH001-080300-080001	sf0r	sf0r-019						

Pick Grouping table					1210				
Pick Grouping Id	Retailer Shipment Id	Case Quantity							
amazon001-080300-PE001	amazon001-080300-PE001	85							

FIG. 9A

FIG. 9A

1226			
CDC Id	epD Retailer Id	SKU	Quantity
sfor-019	amazon001	0123456789	16
1228			
CDC Id	epD Retailer Id	SKU	Quantity (Needed)
sfor-019	amazon001	0123456789	1
1230			
CDC Id	Customer Id	SKU	Quantity (Needed)
sfor-019	amazon001	0123456789	1
1232			
CDC Id	Packing Employee Id	Temperature Code	Package Size
sfor-019	323-55-608	183-62-3085	1
1234			
Package Id	Status	epD Shipper Id	Delivery Shipment Id
111221234-AT001-080400-001	closed	1	CY001-001-080300
1236			
Package Bag Holder Id	CDC Id	Package Bag Holder Size	Packing Employee Id
sfor-019-PS01-BH01	sfor-019	small	323-55-6084

FIG. 9C

Delivery Shipment Id	Status	ePD Shipper Id	RDC Id	CDC Id	Temperature Code	RDC Employee Id	Trailer Loading Employee Id	Trailer Id	Delivery Shipment Loading Date/Time	CDC Employee Id	Delivery Shipment Arrival Date/Time
CH001- sf0r-019- 080300- 001	in-transit	epd	CH001	sf0r-019	standard	824-08-5432	333-22-4442	t-detr- 4321	08-04-00 16:41:20	333-22-4444	08-04-00 19:15:28

1238

Report Id	Case Id	ePD Retailer Id	SKU	Quantity Difference	RDC Id
RPT-AT001- 082300- 001	amazon001- 080300- 123456	amazon001	01234567890 1234567	-1	AT001

1240

Report Id	Quantity	Package Id	Package Status	Delivery Shipment Id	CDC Id
RPT-AT001- 082300- 001	3	111221234- AT001- 080400-001	CDC processing	CH001-001 080300	sf0r-019

1242

Report Id	Quantity	Package Id	Package Status	Delivery Shipment Id	SKU Id	Master Bin Id	LDDH Delivery Vehicle Id	Inspection Authorization Code	Over Quantity Adjustment Code	Short Quantity Adjustment Code
CPT-AT001- 082300- 001	2	111221234- AT001- 080400-001	CDC processing	CH001-001 080300	A01	01	A01-01-0234			

1244

ePD Retailer Id	Retailer Description	Status	Connection Script	Comments	Local Market Id	Address 1	Address 2	City	State	Zip	Contact Number	Return Facility Id	Returns Local Market Id	Returns Address 1	Returns Address 2	Returns City	Returns State	Returns Zip	Returns Contact Number
amazon001	Amazon.c OP's Midwest	active	"connection string"		chica	2809 W. Butler Ave.		Chicago	IL		303-619- 1823	amazon001 RE-001		1102 E. Verde Highway		San Mateo	CA	90455	609-455- 7219

1246

ePD Retailer Id	SKU	Warehouse Location	Status	Quantity	Temperature code
amazon001	012345678 901234567	8212	shippable	60	standard

1248

FIG. 9D

SKU	Status	Standard Case Quantity	SKU Size	Temperature Code	Product Description
01234567					Miami Hurricanes
8912345					baseball cap
67	active	20	small	standard	

SKU table 1250

CDC Id	Status	CDC Description	Local Market Id	CDC Server Connection Script	Address 1	Address 2	City	State	Zip	Primary Contact Number	Secondary Contact Number	Temp Code Reservation Override
sf0r-019	active	Commercial Blvd Location	sf0r	CDC	150 E Commercial Blvd		Fort Lauderdale	FL	33333	954-321-4321	954-987-9876	40

CDC table 1252

Zip Code	CDC #1	Distance	CDC #2	Distance #2	CDC #3	Distance #3	CDC #4	Distance #4	CDC #5	Distance #5
33333	sf0r-019	0	sf0r-018	5	sf0r-020	5	sf0r-021	10	sf0r-017	11

Zip Code table 1254

Customer Id	PN	Last Name	First Name	CDC Preference	Previous CDC	Zip Code	Primary Contact Type	Primary Contact Number/Address	Primary Calling Window Start Time	Primary Calling Window End Time	Secondary Contact Type	Secondary Contact Number/Address	Secondary Calling Window Start	Secondary Calling Window End Time	Dual Notification Indicator	ePD Account Balance
123-45-6789	9876	Sainfield	Jerome	sf0r-019	sf0r-019	33333	phone	954-565-4444	24	8:00	21:00	e-mail	customer@imdspring.com		yes	0

Customer table 1256

RDC Id	epD Shipper Id	Status	RDC Server Connection Script	Address 1	Address 2	City	State	Zip
AT001	epd	active	"connection string"	1700 W. Dolphin St.		Atlanta	GA	2314

RDC table 1258

epD Shipper Id	Status
epd	active

epD Shipper table 1260

CDC Id	Type	Quantity
sf0r-019	cargo cage	5

Counter table 1262

RDC Id	Local Market Id
AT001	ncall

Market table 1264

FIG. 9E

Item Return Header table															1266				
Item Return Id	Status	ePD Shipper Id	Customer Id	CDC Id	ePD Retailer Id	RDC Id	Returns Local Market Id	Item Return Creation Date/Time	CDC Reverse Shipment Id	Original Order Delivery Type	Original Order CDC Id	RDC Shipment Id	RDC Returns Shipment Id	Item Return Retailer Receipt Date/Time					
amazon001-18362308-5-sf0r-019-122800-IR001	in CDC	epd	183-62-3085	sf0r-019	amazon001	CA001	ncall	12-06-00 8:11:19	sf0r-019-120600-RS001	epD	sf0r-019	CH001-120600-00001	CH001-120600-00001	12-07-00 13:26:03					

Item Return Detail table															1268				
Item Return Id	SKU	Package Id	Order Id	Return Quantity	Return Reason Code	Return Reason Comment	Return Retailer Order Number	Order Date/Time											
amazon001-18362308-5-sf0r-019-122800-IR001	012345678	111221234-AT001-901234567	amazon001-183623085-120300-001	2		item was the wrong size	987654321	12-03-00 14:23:02											

CDC Outbound Package table															1270				
CDC Outbound Package Id	Status	ePD Shipper Id	Shipping Customer Id	Delivery Type	Origin CDC Id	Recipient Customer Id	Destination CDC Id	RDC Id	Local Market Id	Temperature Code	Weight	Cost	Delivery Name	Delivery Address 1	Delivery Address 2	Delivery City	Delivery State	Delivery Zip	
88822424-4-sf0r-019-080400-001	in origination CDC	epd	111-22-1234	epD	sf0r-019	888-22-4244	ncall-005	AT001	sf0r	standard	5.75	\$3.00							

CDC Outbound Package table (continued)															1274				
Payment Method	Payment Card Number	Payment Authorization	Payment Reverse Shipment ID	RDC Shipment Id	Package Size	Delivery Shipment Id	Notification Date/Time	Pickup Date/Time											
credit card	234542346-423456000	79878756	sf0r-0190-120600-RS001	CH001-120600-00001	1	CH001-001	12/12/2000 8:10:06 PM	12/13/2000 5:43:25 PM											

CDC Reverse Shipment table															1274				
CDC Reverse Shipment Id	Status	CDC Id	ePD Shipper Id	Origin CDC Id	Shipment Creation Employee Id	Landing Employee Id	Reverse Shipment Date/Time	Reverse Shipment Arrival Date/Time											
sf0r-019-120600-RS001	in-transit	sf0r-019	epd	CH001	333-22-4444	444-33-5555	12-06-00 12:15:35	12-06-00 17:25:08											

FIG. 9F

FIG. 9F

RDC Returns Shipment table														1276						
RDC Returns Shipment Id	ePD Shipper Id	ePD Retailer Id	RDC Id	Temperature Code	RDC Employee Id #1	RDC Employee Id #2	RDC Employee Id #3	RDC Employee Id #4	RDC Employee Id #5	Trailer Loading Employee Id	Trailer Id	RDC Returns Shipment Loading Date/Time	RDC Returns Shipment Arrival Date/Time	Retailer Employee Id						
CH001-120700-001	epd	amazon001	CH001	standard	824-08-5432						333-22-444	1-depo-4321	08-04-00 16:41:20	08-04-00 19:15:28	333-22-4444					
Order Header History table														1278						
Order Id	Status	ePD Shipper Id	ePD Retailer Id	Retail Order Number	Delivery Type	Customer Id	Ordering Customer Id	Order Date/Time	RDC Id	Local Market Id	CDC Id	Partial Ship	Retailer Message-Order Header	Retailer Message-Package List	Delivery Name	Delivery Address 1	Delivery Address 2	Delivery City	Delivery State	Delivery Zip
amazon001-18362308-5-080300-001	picked up	epd	amazon001	987654321	ePD	183-62-3085	183-62-3085	08-03-00 14:23:02	AT001	efor		No	custom message (for order)...	custom message (for message (for retailer)...						
Order Detail History table														1280						
Order Id	Status	SKU	SKU Size	Temperature Code	Quantity	Retailer Shipment Id	RDC Shipment Id	Package Id	Case Id	Retailer Message-Order Detail	Notification Date/Time	Pickup Date/Time								
amazon001-18362308-5-080300-001	picked up	0123456789 01234567	small	standard		amazon001-080300-00001	CH001-080300-00001	111221234-AT001-080400-001	amazon001-080300-123456	custom message (for order line item)...	7/12/2000 8:10:16 PM	7/13/2000 5:43:25 PM								

FIG. 9G

Bill Inventory table														
Bin Id	SBU Id	Master Bin Id	Bin Size	Configuration Code	Temperature Code	Customer Id	PIN	Quick Code	Package Id	Status	Delivery Employee Id	ePD Shipper Id	Delivery Date/Time	Notification Date/Time
A01-01						183-62-3085			111221234-AT001-		183-62-3085	ePackage-Depot	7/12/2000 8:05:22 PM	7/12/2000 8:10:06 PM
0234	A01	01	3	234	standard		9999	1111	080400-001	notified				
1301														
Bin Availability		Temperature Code	Quantity											
Bin Size	3	standard	47											
1302														
Bin Reservation table		Temperature Code	ePD Shipper Id	Reservation Date/Time	Quantity	Trailer Loading Employee Id	Status							
Bin Size	3	standard	ePackage-Depot	7/11/2000 11:33:04 PM	11	183-44-114288	new							
1303														
Reserved Bins		Temperature Code	Quantity											
Bin Size	3	standard	19											
1304														
Pending Bin Adjustments table		Temperature Code	Quantity Adjustment											
Bin Size	3	standard	-1											
1305														
Unreserved Bins		Temperature Code	Quantity											
Bin Size	3	standard	28											

FIG. 10A

Configuration Adjustments Log table										1306	
Configuration Adjustment Id	Configuration Type	Bin Id 1	Bin Id 2	Bin Id 3	Bin Id 4	Configuration Code 1	Configuration Code 2	Configuration Code 3	Configuration Code 4	Employee Id	Configuration Date/Time
A01-01		A01-01								183-62-3085	12/13/2000 6:59:17 PM
0234	drinking	0234				2	34				
121300											

High-availability Bins data view			1307	
TSUID	Temperature Code	Available Quantity		
A01	standard	32		

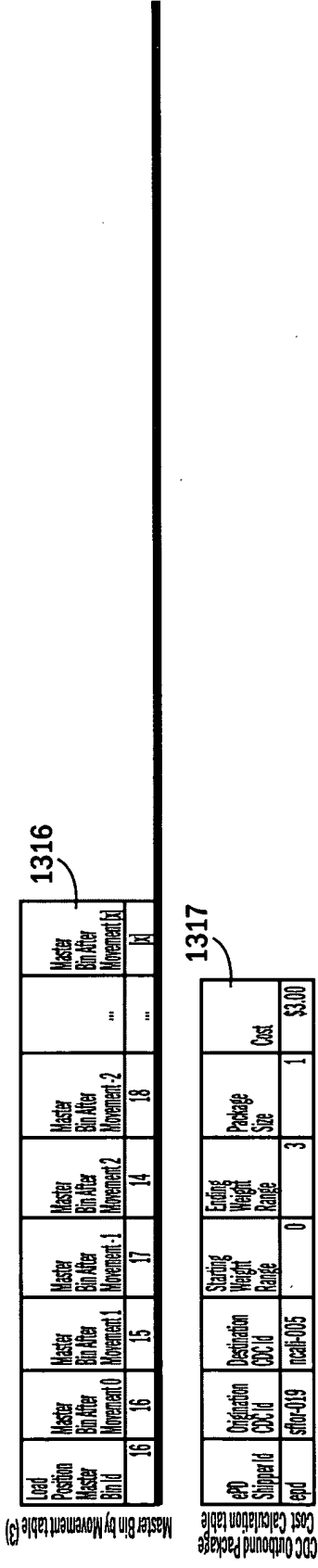
Employee table			1308	
Employee Id	epd	Local Market Id		
432-47-0926	epd	star		

Notification on Check table		1310	
Customer Id	123-45-6789		

FIG. 10B

Notification Queue table														
Customer Id	Record Date/Time	Total Number of Packages	New Indicator	First Notification Date/Time	Last Primary Contact Date/Time	Last Secondary Contact Date/Time	Next Primary Contact Date/Time	Next Secondary Contact Date/Time	Number of Primary Attempts	Number of Secondary Attempts	Next Contact Date/Time			
123-45-6789	7/12/2000 8:06:27 PM	1	yes	null	null	null	null	null	0	0	null			
1311														
Package Pickup table														
COC Id	Bin Id	SBU Id	Master Bin Id	Configuration Code	Bin Size	Temperature Code	Customer Id	PIN	Quick Code	Package Id	Delivery Employee Id	Delivery Date/Time	Notification Date/Time	Pickup Date/Time
sf00-019	A01-01-0234	A01	01	234		3 standard	183-62-3085		9999	1111	080400-401	7/12/2000 8:05:27 PM	7/12/2000 8:10:06 PM	7/13/2000 5:43:25 PM
1312														
Quick Code table														
Quick Code	1111													
1313														
SBU Settings table														
SBU Id	Load Position Master Bin Id	Door Configuration Code	1314											
A01	16	100												
Bin Movement table														
Load Position Master Bin Id	Movement needed for Master Bin Id	Movement needed for Master Bin Id	Movement needed for Master Bin Id	1315										
16	3	4	1-4											

FIG. 10C



Application listing

	Application Name	Application Server(s)
	ePD Billing and Maintenance Application	Corporate
	ePD Shipping Application	Retailer, RDC
	ePD Delivery Application	RDC, CDC
	ePD SBU Application	CDC

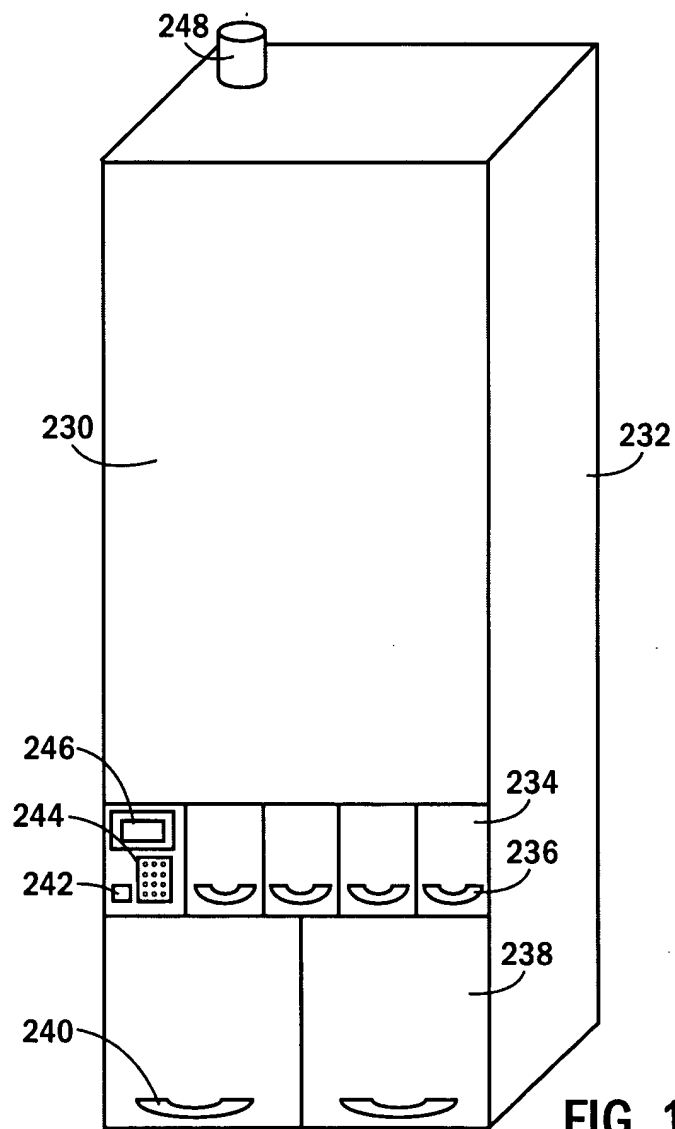
Program listing

Ref #	Program Name	Application
(310)	Pick List Report Program	ePD Shipping Application (retailer's instance)
(311)	Receive RDC Returns Shipment Data	ePD Shipping Application (retailer's instance)
(312)	Retailer Shipment Program	ePD Shipping Application (retailer's instance)
(313)	Receive RDC Returns Shipment Program	ePD Shipping Application (retailer's instance)
(314)	Retailer Shipment Adjustments Program	ePD Shipping Application (retailer's instance)
(315)	Retailer Package Creation Program	ePD Shipping Application (retailer's instance)
(316)	Receive Retailer Shipment Program	ePD Shipping Application (shipper's instance, origination RDC)
(317)	Receive RDC Reverse Shipment Data Program	ePD Shipping Application (shipper's instance, destination RDC)
(318)	RDC Shipment Program	ePD Shipping Application (shipper's instance, origination RDC)
(319)	Receive RDC Reverse Shipment Program	ePD Shipping Application (shipper's instance, destination RDC)
(320)	RDC Shipment Loading Program	ePD Shipping Application (shipper's instance, origination RDC)
(322)	Train Loading Program	ePD Shipping Application (shipper's instance, origination RDC)
(324)	Receive RDC Shipment Program	ePD Shipping Application (shipper's instance, destination RDC)
(326)	Local Market Sort Program	ePD Shipping Application (shipper's instance, destination RDC)
(328)	CDC Sort Program	ePD Shipping Application (shipper's instance, destination RDC)
(330)	Package Creation Program	ePD Delivery Application (shipper's instance, destination RDC)
(332)	Packing List Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(334)	RDC Package Inspection Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(336)	CDC Package Inspection Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(338)	Packing Adjustment Program	ePD Delivery Application (shipper's instance, destination RDC)
(340)	Delivery Shipment Creation Program	ePD Delivery Application (shipper's instance, destination RDC)

FIG. 11A

Ref #	Program Name	Application
(341)	RDC Returns Shipment Creation Program	ePD Delivery Application (shipper's instance, destination RDC)
(342)	Delivery Shipment Program	ePD Delivery Application (shipper's instance, destination RDC)
(343)	RDC Returns Shipment Data Transfer Program	ePD Delivery Application (shipper's instance, destination RDC)
(344)	Configuration Adjustments Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(345)	Shipment Adjustments Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(346)	Packing Materials Supply Program	ePD Delivery Application (shipper's instance, destination RDC)
(347)	Notification Update Program	ePD Delivery Application (shipper's instance, destination RDC)
(348)	Pickup Update Program	ePD Delivery Application (shipper's instance, destination RDC)
(349)	Billing Program	ePD Delivery Application (shipper's instance, destination RDC)
(350)	CDC Package Adjustment Program	ePD SBU Application
(352)	SBU Configuration Program	ePD SBU Application
(354)	Loading Guide Report Program	ePD SBU Application
(356)	Loading Program	ePD SBU Application
(358)	New Package Notification Program	ePD SBU Application
(360)	Notification Program	ePD SBU Application
(362)	Auto-Call Program	ePD SBU Application
(364)	Auto-e-mail Program	ePD SBU Application
(366)	E-mail Error Checking Program	ePD SBU Application
(368)	Package Location Report Program	ePD SBU Application
(370)	Unloading Program	ePD SBU Application
(372)	Bin Positioning Program	ePD SBU Application
(374)	Re-open Program	ePD SBU Application
(376)	Quick Code Reset Program	ePD SBU Application
(378)	CDC Returns Program	ePD SBU Application
(380)	CDC Outbound Package Creation Program	ePD SBU Application
(382)	CDC Reverse Shipment Creation Program	ePD SBU Application
(384)	CDC Reverse Shipment Program	ePD SBU Application
(386)	CDC Reverse Shipment Maintenance Program	ePD SBU Application
(388)	RDC Returns Shipment Update Program	ePD Delivery Application (shipper's instance, destination RDC)

FIG. 11B



SmartBin Unit (front external view)

FIG. 12

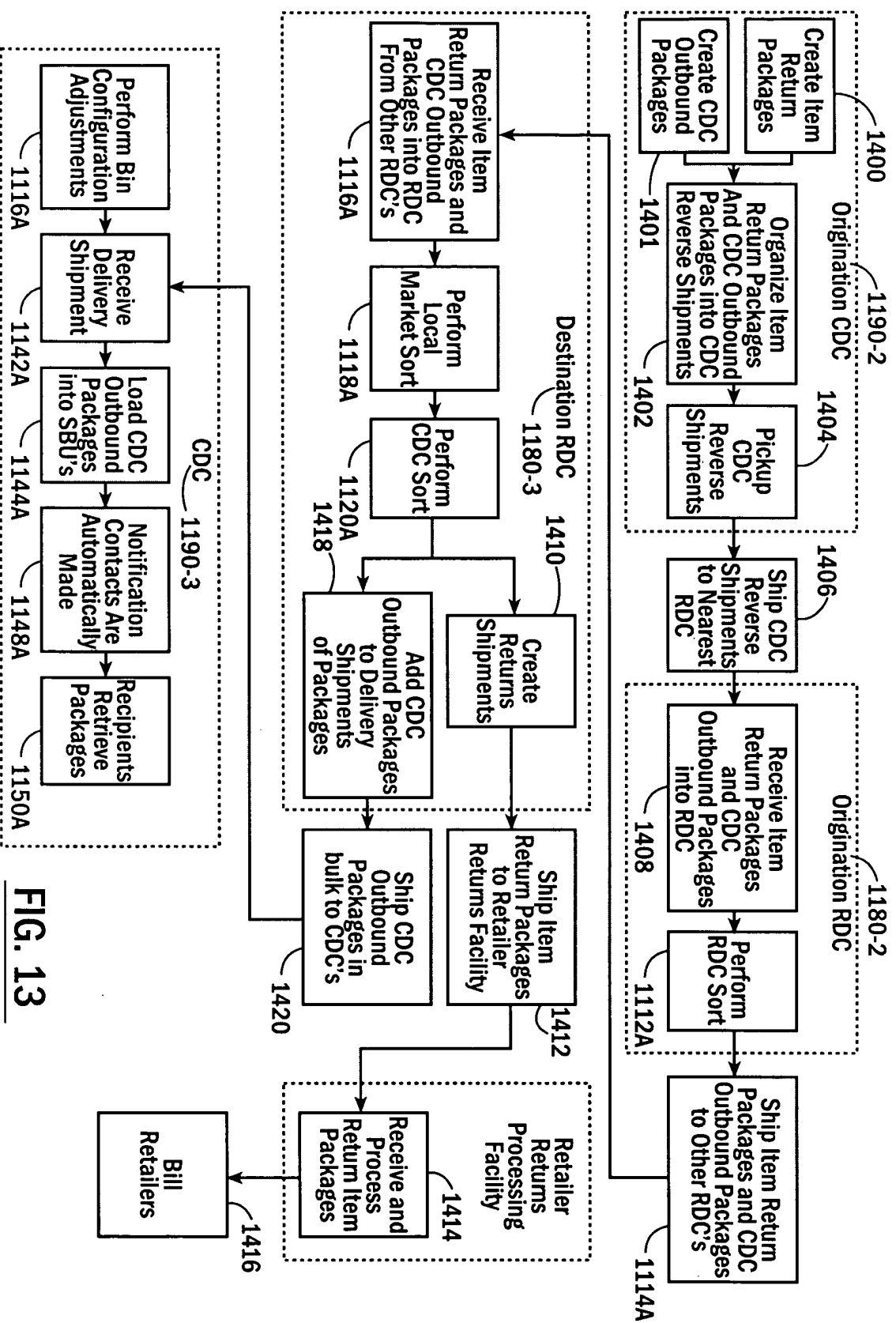


FIG. 13